

**B01-10**

City of Concord, New Hampshire

Purchasing Division

**HALL STREET WASTEWATER TREATMENT PLANT  
BIOTOWER REFURBISHING**

Prepared for, and in coordination with the

**GENERAL SERVICES DEPARTMENT  
WASTEWATER TREATMENT DIVISION**

Contract  
Bid Documents  
Specifications

FAY, SPOFFORD & THORNDIKE, LLC

**BID DUE DATE/TIME: SEPTEMBER 4, 2009 NOT LATER THAN 2:00 PM  
MANDATORY PRE-BID MEETING: AUGUST 20, 2009 AT 9:00 AM**

**JUNE 2009**

## INVITATION FOR BIDS

**City of Concord, NH**

Owner

41 Green St. Concord, NH 03301

Address

The Purchasing Division, 1<sup>st</sup> Floor City Hall, 41 Green Street, Concord, New Hampshire 03301 will receive separate sealed BIDS for BioTower Refurbishing until 2:00 pm on September 4, 2009 at which time and place they will be opened and publicly read. The sealed envelope should be plainly marked:

### B01-10, BIOTOWER REFURBISHING

Each sealed envelope should bear on the outside the BIDDER's name, address, and license number if applicable and the name of the project for which the BID is submitted. If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at:

**City of Concord, Purchasing Division, 41 Green Street, Concord, NH 03301.**

This project shall consist of the: (1) Demolition, disposal and/or salvage of existing redwood media and media support system, flow distribution system, flow control valves, and electrical conduits and lights in the north and south biotowers of the Hall Street Wastewater Treatment Plant; (2) Installation of new vertical flow plastic media, media support system, flow distribution system, influent flow control valves, flow distribution nozzles, new electrical conduits and lights, extension of existing walkways, concrete and site work as indicated on the Contract Drawings and Specifications.

1. Completion time for the project will be calculated as calendar days from the date specified in the "Notice to Proceed" as follows:

300 calendar days for substantial completion.

360 calendar days for contract completion.

Liquidated damages will be in the amount of \$ 1,000 for each calendar day of delay from the date established for substantial completion, and \$ 250 for each calendar day of delay from the date established for contract completion.

2. Each General Bid shall be accompanied by a bid security in the amount of 5% of the Total Bid Price.
3. The successful Contractor must furnish separate Performance and Payment Bonds, each in the amount of 100% of the contract price, an insurance certificate, meeting the minimum required types and levels of coverage, naming the City as an additional insured and will be required to execute the Contract Agreement within ten (10) calendar days following notification of the acceptance of the Contractor's bid.
4. The City of Concord reserves the right to reject any or all bids or any part thereof, to waive any informality, formality, information and/or errors in the bidding, to accept the bid considered to be in the best interests of the City, or to purchase on the open market if it is considered in the best interests of the City to do so.
5. Failure to submit all required information and/or submission of an unbalanced bid are sufficient reasons to declare a bid as non-responsive and subject to disqualification.
6. Any contract or contracts awarded under this Invitation for Bids are expected to be funded in part by a grant from the New Hampshire Department of Environmental Services
7. No Bidder may withdraw a Bid within ninety (90) calendar days after the actual date of opening thereof.
8. All bids are posted publicly in accordance with the City's Code of Ordinances.
9. There will be a MANDATORY Pre-Bid Meeting held at The Hall Street Wastewater Treatment Plant, 125 Hall Street, Concord, NH 03301 on August 20, 2009 at 9:00 AM.

Construction Summary of NH, 734 Chestnut Street, Manchester, NH 03104

Bid Ocean Inc., P.O. Box 40445, Grand Junction, CO 81501

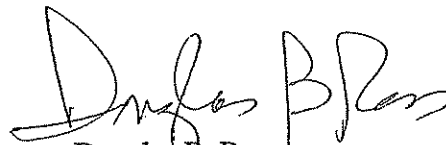
Associated General Contractors, 48 Grandview Road, Bow, NH 03304

McGraw Hill Construction Dodge Plan Room, 880 Second Street, Manchester, NH 03102

NE Construction News, 100 Radnor Road, Suite 102, State College, PA 16801

Copies of the Contract Documents may be obtained from the City of Concord Purchasing  
Division, City Hall, 41 Green  
Street, Concord, NH 03301

upon payment of a fee of \$50.00 per set, which will not be refunded. Partial sets  
will not be distributed. All requests for mailed documents must be accompanied by an additional  
fee of \$10.00 to cover the cost of postage and handling.



Douglas B. Ross  
Purchasing Manager

Date: June 25, 2009

## SECTION 01010 – SUMMARY OF WORK

### PART 1 - GENERAL

#### 1.01 WORK COVERED BY CONTRACT DOCUMENT

- A. Project Identification: Project consists of a base bid items for the north biotower at the Hall Street Wastewater Treatment Plant including the demolition and disposal of the existing distribution piping, valves; and the removal of the redwood biotower media and support system, the salvage of the flow distribution nozzles, concrete and joint restoration, the installation of new vertical flow plastic media, media support system, new media protective grating, new distribution system, two new 20-inch motor operated influent flow control valves, and new flow distributor nozzles. Project includes additive alternate items for the north biotower to include demolition and replacement of new electrical conduits and lighting fixtures, the extension of the existing walkways and handrail system, the installation of new electrical and lighting for the walkway extension, and the disposal of the existing redwood media as shown on the Drawings and specified in the Specifications. The project also includes an additive alternate item for the south biotower to include the cleaning, demolition and disposal of existing redwood media and support system, the existing distribution piping, flow distribution nozzles, valves, and electrical conduits, concrete and joint restoration, the installation of new electrical and lighting, new vertical flow plastic media and support system, new distribution system, two new 20-inch motor operated influent flow control valves, new flow distributor nozzles, the extension of aluminum walkway and handrails, and new electrical conduits and lighting system as specified herein and as shown on the Drawings.

1. ***Project Location:*** Hall Street Wastewater Treatment Plant

125 Hall Street  
Concord, NH 03301

- B. Engineer Identification: The Contract Documents, dated June 2009, were prepared for the Project by Fay, Spofford & Thorndike, LLC.
- C. The Work consists of the following.
1. Remove and legally dispose offsite existing media and supports, distribution system, electrical conduits and valving to be abandoned.
  2. Repair spalls and cracks in the biotower concrete media supports for installation of the vertical flow plastic media.
  3. Repair of the concrete panel joint sealing system in the biotower.

4. Remove and replace existing conduits, wiring and lighting fixtures.
  5. Furnish and install new vertical flow plastic media and support system.
  6. Furnish and install four 20" motor operated flow control valves.
  7. Remove and salvage the existing distributor nozzles and install new nozzles.
  8. Extend walkway, modify handrail and grating, and install ladders and chains.
  9. Install new electrical and lighting system for the extension of the walkway.
- D. All equipment, new and existing, shall be protected from deterioration and physical damage at all times.
- E. Materials of demolition shall be removed from the site and disposed of in an acceptable legal manner.
- F. Salvaged material shall remain the property of the Owner and be stored as designated by the Engineer or Owner.
- G. Safe and clean working conditions shall be maintained at all times, especially for operations and maintenance staff. Access for operation and maintenance must be properly maintained for foot traffic and vehicular traffic. This will require OSHA approved methods.
- H. No open fire burning will be allowed on site.
- I. Removal of existing piping and/or equipment from service shall be done by the Contractor in coordination with the Owner's treatment plant staff. The Contractor shall be responsible for any additional cleaning required in preparation for construction or equipment/system checkout and performance testing.
1. Contractor shall conduct his operations in a manner that allows the treatment plant to remain operational during the entire time of construction.
  2. At any given time, one biotower shall remain fully operational.

#### 1.02 SPECIAL SITE CONDITIONS AND PROJECT CONSTRAINTS

- A. The Contractor is advised that the work takes place within an operating wastewater treatment plant and Contractor is to adhere to posted safety signage and notices.

- B. The Contractor is advised that they will be working in areas and/or proximity to areas of raw sewage, scum, sludge, hot water, sodium hypochlorite, acid and caustic liquids.
- C. The Contractor shall inspect the site to determine the available access routes. The Contractor shall also review the available site drawings for the plant with respect to underground utilities and structures along the possible access routes. The Contractor shall review the selected access route with the Owner prior to bringing any equipment or materials on-site. Any damage to the site, including paved and seeded areas, as well as utilities or structures resulting from the Contractor's use of the site shall be repaired by the Contractor at no additional cost to the Owner.

#### 1.03 ORDER OF WORK

- A. The work shall be executed in such order and manner as the Engineer shall approve. After the award of the contract, the Contractor shall immediately work out in detail a construction progress schedule covering all parts of the work which shall be submitted to the Engineer for approval.
- B. The work shall be prosecuted and SUBMITTALS furnished for approval in accordance with the Contractor's approved Construction Schedule.

#### 1.04 CLEANUP

- A. Debris and waste material shall not be permitted to accumulate and the work shall be kept satisfactorily clean at all times.
- B. Immediately after unpacking, the Contractor shall collect and remove all packing materials, case lumber, excelsior, wrapping, and other rubbish.
- C. The Contractor shall provide metal containers with tight fitting covers, located where directed or approved by the Engineer, into which all refuse and garbage shall be deposited on a daily basis.
- D. Upon completion of the work and before acceptance and final payment, the Contractor shall remove, at his own expense, all temporary structures and equipment built or furnished by him, all debris and waste materials, and all surplus materials of all kinds from the site of the work, and dispose of them in a manner approved by the Engineer. The premises shall be left in a neat and orderly condition.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

\*\* END OF SECTION \*\*





# City of Concord, New Hampshire

## PURCHASING DEPARTMENT

CITY HALL, 41 GREEN STREET

CONCORD, NH 03301

(603) 225-8530

FAX: (603) 230-3656

July 21, 2009

### ADDENDUM NUMBER ONE

B01-10


### BIOTOWER REFURBISHING

### HALL STREET WASTEWATER TREATMENT PLANT

**TO ALL FIRMS OF RECORD:** This addendum forms a part of and modifies the bidding and contract documents and technical specifications for the project named above. The following changes, additions and clarifications are made to the original Contract Documents:

1. **Drawing No. S-1.** Delete "Additive Alternate No. 3" in the North Biotower Foundation Plan and replace with "Additive Alternate No. 4".
2. **Drawing No. S-1.** Delete "Additive Alternate No. 4" in the South Biotower Foundation Plan and replace with "Additive Alternate No. 5".

PLEASE BE ADVISED THAT THE CONTRACTOR MUST ACKNOWLEDGE RECEIPT OF ADDENDUM ONE ON THE BID FORM (PAGE A-3.1).

CITY OF CONCORD, NEW HAMPSHIRE  
  
DOUGLAS B. ROSS  
PURCHASING MANAGER